



30-May-2018

To: David Law, IEEE 802.3 WG Chair
Copy: Steven Carlson, IEEE 802.3ch WG Chair
Peter Lefkin, Managing Director, MIPI Alliance
Laura Nixon, Program Manager, MIPI Alliance Liaisons
From: Matt Ronning, Automotive WG Chair, MIPI Alliance

Dear David,

Over the past year, the MIPI Alliance has chartered two groups related to high speed automotive sensor interfaces. The first is the Automotive WG, which is responsible for requirements gathering, system architecture and coordination with other MIPI and non-MIPI WG's and SDO's. The second is a new physical layer development dubbed the "A-Phy", being developed within the MIPI Physical Layer WG.

As the requirements phase draws to a close, it is important to note the members were careful to define distinct use cases as non-overlapping as possible with the ongoing IEEE 802.3ch NGAUTO effort. Briefly, the most important aspect was to focus on automated driving sensor and display interconnect characterized by highly asymmetric data transfer. In other words, multi-gigabit unidirectional data transfer with a much slower speed bidirectional control channel.

This distinction notwithstanding, the Automotive WG believes there are several areas of synergy between the A-Phy development and IEEE 802.3ch.

The MIPI Alliance would like to establish a liaison with the IEEE 802.3ch WG in order to exchange technical data pertaining to:

1. Link studies (channel models)
2. Phy-modem design from a communications theory perspective
3. EMC testing, including EMI and EMS, with both models and empirical tests.

Both WG are open to other types of data that may be identified by the IEEE 802.3ch WG in the future. At this time, the A-Phy Subgroup within the Phy WG does not have a draft specification. We would entertain exchanging draft specifications at a later time, after more consideration.

We look forward to your reply and the productive interchange between our organizations.

Best regards,

/s/ Matt Ronning

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